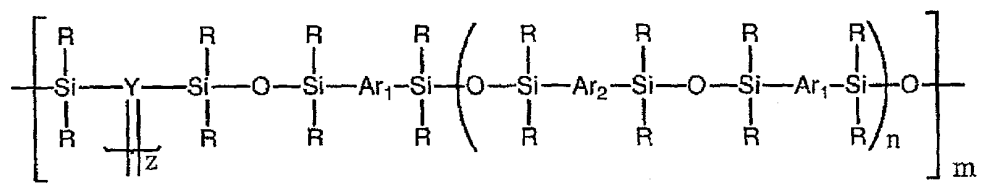


PATENT APPLICATION  
Navy Case No.: 82,942

AMENDMENTS TO THE SPECIFICATION

Please replace the identified paragraphs with the following rewritten paragraphs.

[0010] These and other objects of the invention are accomplished by a networked polymer comprising the formula:



wherein  $n \geq 1$ ;

wherein  $n$  is an average value obtained by averaging all repeating units of the networked polymer;

wherein  $m \geq 1$ ;

wherein  $Y$  is a divalent group containing one or more acetylenic groups, one or more ethenyl crosslinks, or both;

wherein  $z$  is the crosslink density average number of crosslinks per  $Y$  group;

wherein  $Ar_1$  and  $Ar_2$  are independently selected aromatic groups; and

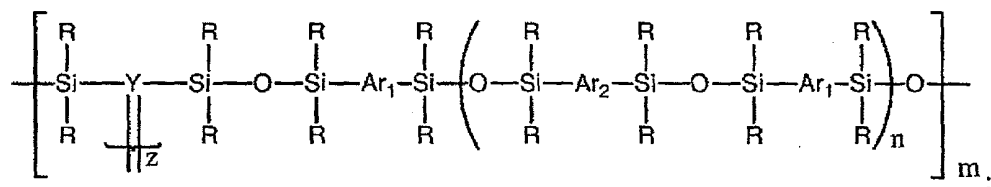
wherein each  $R$  is independently selected from the group consisting of alkyl, aryl, alkylaryl, haloalkyl, haloaryl, and combinations thereof.

[0054] The final reaction step is the crosslinking of the precursor 108 to produce a networked polymer 110.  $Y$  in the networked polymer 110 is a divalent group containing one or more acetylenic groups, one or more ethenyl crosslinks, or both. Within each  $Y$ , a former acetylenic group may be converted to a single bond between ethenyl crosslinks, or a former pair of conjugated acetylenic groups may be converted to a single acetylenic group between ethenyl crosslinks. Other crosslinking schemes are also possible and are known in the art. Crosslinking does not necessarily occur in every repeating unit; thus  $z$  represents the crosslink density average number of crosslinks per  $Y$  group. The value  $n$  is an average value greater than or equal to 0, obtained by averaging all repeating units of the networked polymer 110.

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Please replace the Abstract with the following rewritten Abstract.

The invention comprises a networked polymer comprising the formula:



wherein  $n \geq 1$ ; wherein  $n$  is an average value obtained by averaging all repeating units of the networked polymer; wherein  $m \geq 1$ ; wherein  $Y$  is a divalent group containing one or more acetylenic groups, one or more ethenyl crosslinks, or both;

wherein  $z$  is the ~~crosslink density~~ average number of crosslinks per Y group; wherein  $Ar_1$  and  $Ar_2$  are independently selected aromatic groups; and wherein each  $R$  is independently selected from the group consisting of alkyl, aryl, alkylaryl, haloalkyl, haloaryl, and combinations thereof. The invention also includes prepolymers and precursors needed to make the networked polymer and processes for making all of the above. The invention also includes a ceramic composition made by pyrolysis of the networked polymer.